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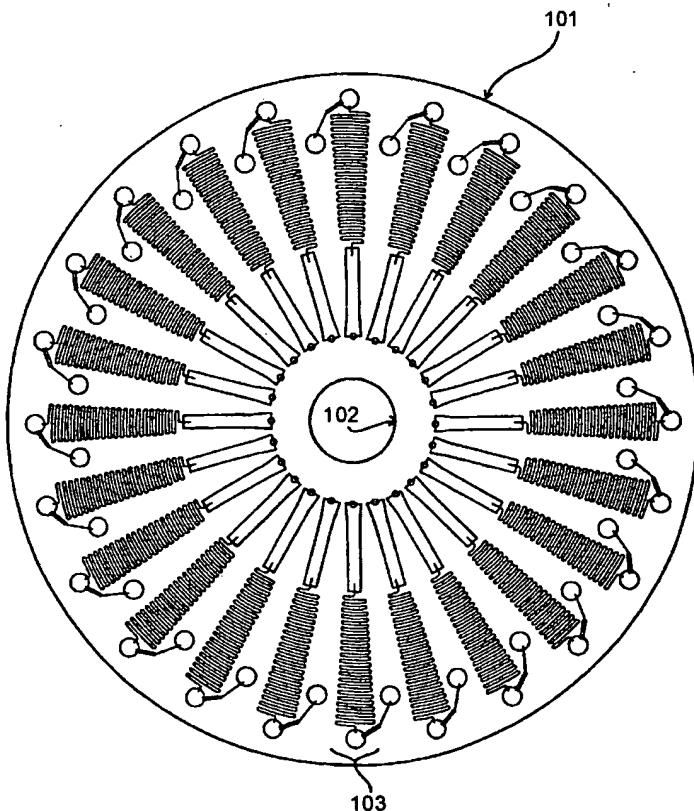
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- (21) International Application Number: PCT/US01/15824 (72) Inventors; and
- (22) International Filing Date: 15 May 2001 (15.05.2001) (75) Inventors/Applicants (for US only): **KELLOGG, Gregory, J.** [US/US]; 137 Magazine Street #1, Cambridge, MA 02139 (US). **CARVALHO, Bruce** [US/US]; 50 Merrill Road, Watertown, MA 02472 (US).
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[Continued on next page]

(54) Title: **BIDIRECTIONAL FLOW CENTRIFUGAL MICROFLUIDIC DEVICES**



(57) Abstract: This invention relates to methods and apparatus for performing microanalytic and microsynthetic analyses and procedures. The invention particularly provides microsystem platforms for achieving efficient mixing of one or a plurality of fluids on the surface of the platform when fluid flow is motivated by centripetal force produce by rotation.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01L3/00 B01F13/00 B01J19/00 G01N21/07

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 744 975 A (MAILEN J) 10 July 1973 (1973-07-10)	1-3,6,8, 11,16, 17,20-23 8,15,18, 19
Y	column 2, line 30 -column 3, line 24 column 3, line 42 -column 3, line 54 column 4, line 12 -column 4, line 55 column 5, line 1 -column 5, line 35 figures 1-6 --- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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- *&* document member of the same patent family

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INTERNATIONAL SEARCH REPORT

National Application No

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